

## ABSTRACT OF DISCLOSURE

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An object of the present invention is to provide a co-

5 catalyst for purifying an exhaust gas which can be used for a longer period of time as an actual catalyst by using the cerium oxide in the conventional co-catalyst for purifying the exhaust gas as a cerium-containing complex oxide for elevating the resistance to heat and suppressing

10 the performance reduction due to thermal deterioration and by making a specific surface area and an oxygen storage capacity over specified values. A co-catalyst for purifying an exhaust gas of the present invention includes a composite oxide including (a) cerium; and (b)

15 at least one element selected from the group consisting of zirconium, yttrium, strontium, barium and a rare-earth element supported on a particulate aluminum oxide support; a specific surface area of the co-catalyst after sintering being not less than  $40 \text{ m}^2/\text{g}$ ; an oxygen storage

20 capacity at  $400^\circ\text{C}$  being not less than  $10 \mu\text{mols/g}$  and an oxygen storage capacity at  $700^\circ\text{C}$  being not less than  $100 \mu\text{mols/g}$ .

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